

Work Order ID 159132

Wednesday, April 05, 2017 8:53:38 AM

159132

Page 1

Item ID: D3031-1 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Loop
Start Date: 4/6/2017 Start Qty: 12.00 ***12*** Cust Item ID:
Required Date: 4/12/2017 Req'd Qty: 12.00 ***12*** Customer:
Reference:

Approvals: Process Plan: **DAS 13 9-89** Date: **APR 05 2017** Tooling: Date: Run Start ***NR1***
QC: Date: SPC (Y/N): Date: Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D3031	Rev B

100

100

Purchasing

Purchasing

PURCHASING

Memo

Issue P/O: **35885** Possible supplier: -Thomas Hardware P/N
TH73 - Austin Hardware P/N 6411G-Description: Footman
Loop-All dimensions are in inches-Tolerances are per Dart QSI 018 unless
otherwise notedMaterial release note

0.00

0.00

12 **APR 06 2017** **DAS 13 9-89**

110

110

Packaging

Packaging

Receive & Inspect for Damage & Mat'l Certs

Memo

Ensure Material Release Note is attached

0.00

0.24

12x SP17-4-10

120

120

QC

Quality Control

QC6- Inspect dimensions to drawing

Memo

0.00

0.00

12 **APR 11 2017** **88-8 88 88-8**

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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130 *130* Powdercoat Powder Coating	Grey Sandtex(Ref:4.3.5.6) per OSI005 4.3 <i>M134858</i> Memo START TIME: <i>1:55</i> OVEN TEMPERATURE: <i>225</i> FINISH TIME: <i>2:25</i>	0.00 0.49				<i>12</i>	<i>0</i>	<i>17-04-12</i>	<i>233</i>
140 *140* QC Quality Control	QC3- Inspect Part Finish Memo	0.00 0.12				<i>12</i>			<i>DAS</i> <i>38</i> <i>9-89</i> <i>APR 17 2017</i>
150 *150* Packaging Packaging	Identify as-per dwg & Stock Location: _____ <i>LOCATION : GA</i>	0.00 0.12				<i>12</i>			<i>APR 18 2017</i> <i>DAS</i> <i>6</i> <i>9-89</i>

DQA: _____ Date: _____



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Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
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								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : ☐			

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Approvals: Process Plan: Date: Tooling: Date: Run Start ***NR1***
QC: Date: SPC (Y/N): Date: Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
160	QC21- Final Inspection - Work Order Release	0.00							
160									
QC	Memo	1.20							
Quality Control									

 APR 19 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
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Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Picklist Print

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Page 1

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159132

Parent Item: D3031-1

D3031-1

Parent Item Name: Loop

Start Date: 4/6/2017

Required Date: 4/12/2017

Start Qty: 12.00

Required Qty: 12.00

Comments: IPP A01.05.30New IssueEC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

6411G

Purchased

No

100

Each

0.0000

1

12

6411G

LOOP

2x Sp 17 2/10.

DQA: _____ Date: _____



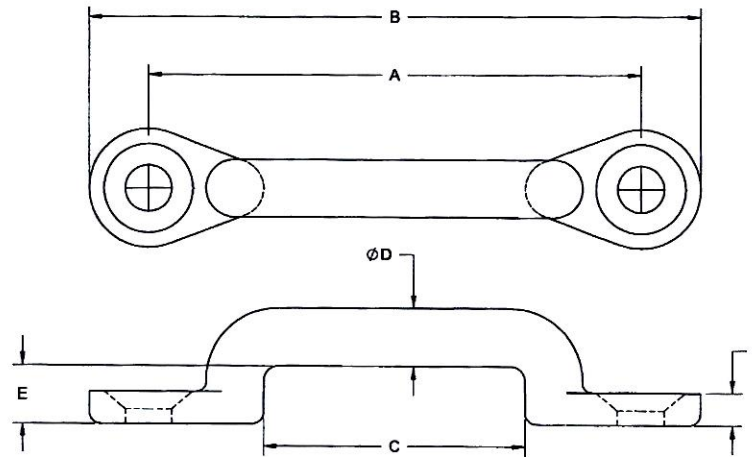
WORK ORDER NON-CONFORMANCE / UPDATE

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Description Work Order Deviation				Disposition					
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Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
OTHER : ☐									

SPECIFICATION CONTROL DRAWING



D3031-X LOOP

DART P/N	A	B	C	ØD	E	F	FINISH	WEIGHT	SUPPLIER	SUPPLIER P/N
D3031-1	3.13	3.64	2.09	0.25	0.31	0.16	POWDER COAT GREY (4.3.5.6) PER DART QSI 005 4.3	0.06 LBS	THOMAS HARDWARE	TH73
D3031-3	2.13	2.64	1.12	0.25	0.25	0.14	NONE	0.04 LBS	AUSTIN HARDWARE	6411G
									AUSTIN HARDWARE	AH 6411-B

△

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: SEE TABLE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: SEE TABLE

**DAS
13
9-89**

APR 05 2017

W10.159132

RELEASED
09/15/05

B	ADD D3031-3 (B8-1); UPDATE FORMAT TO CURRENT STANDARD	PH	09.04.14
A	NEW ISSUE	CP	01.05.18
REV.	DESCRIPTION	BY	DATE
DESIGN	CP	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	<i>PH</i>	DRAWING NO.	REV. B
CHECKED	<i>PH</i>	D3031	SHEET 1 OF 1
MFG. APPR.	N/A	TITLE	SCALE
APPROVED	<i>[Signature]</i>	LOOP	NTS
DE APPR.	<i>[Signature]</i>	DATE 09.04.14	
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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35885**

Purchase Order Date 4/6/2017 12:40:20 PM

PO Print Date 4/6/2017

Page Number 1 of 1

Order From :

ROYAL BANK VISA
XXX

XX, X

VU-ROY001

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED
APR 16 2017

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

FedEx Overnight collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

COD

Currency

USD

FOB

Destination-Collect

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	6411G DAS 38 9-89 AS PER DWG D3031 REV. B B159132 AUSTIN P/N: 6411G	LOOP	4/13/2017 Yes 4/13/2017		12.00 Each	\$0.63	\$7.56

Line Total: \$7.56

3	71401-45 Procurement Quality Clauses A005 RIGHT OF ENTRY A026 CERTIFICATION OF MATERIAL CONFORMANCE A040 NOTIFICATION OF QUALITY ESCAPE A042 DART NOTIFICATION BY SUPPLIER A043 RETENTION OF QUALITY DOCUMENTS	PROCUREMENT QUALITY CLAUSES	4/13/2017 No 4/13/2017		1.00	\$0.00	\$0.00
---	--	--------------------------------	------------------------------	--	------	--------	--------

Line Total: \$0.00

PO Total: \$7.56

PO Instructions: AUSTIN HARDWARE
VISA ACCT: 4514 0310 0959 2060
EXP: 11/17 CID:134

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 4/6/2017

Order Shipped From:
 Reading
 1001 Rockland St.
 Reading, PA 19604
 Main Phone: (800) 634-4293



Pack ID 575388	Order Number 944734
Cust ID 10235	PO Number PO35885
FOB SHIPPING POINT	Page 1 of 1

Packing Slip

Sold To: Chantal Lavoie Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada	Ship To: Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada
---	--

Order Date	Ship Date	Ship Via / Account	Ordered Entered By			Terms	
4/7/2017	4/7/2017	Fedex Std NDA / 15179324	DBowe			Credit Card	
Line / Rel	Austin Part# Customer Part#	Description Customer Part Description	UOM	Order Qty	Ship Qty	Lot Number/ Expiration Date	Total Net Wt
1/1	AH 6411-G ZN	FOOTMAN LOOP	EA	12	12		0.00
8/14/10							

FedEx ONLY: <u>Employee#</u> <u>Project#</u> <u>GL Acct Code</u> 0 <u>Cost Center</u> <u>Non-Rev#</u>		Certificate of Conformance: This is to certify that the above items were supplied in accordance with the description and as illustrated in the catalog Joe E. Lenart Operations Manager
--	--	---